				<b>O. BC</b>	IL CONS. CO/ DX 1980 NEW MEXIC	MMISSION (HH - CO 88240	
Form 3160-5 (June 1990)	DEPARTMENT (	D STATES OF THE INTERIOR		nu tot	Budget Bure Expires:	APPROVED au No. 1004-0135 March 31, 1993	
		AND MANAGEMENT APR 19 3 05 FH '94		5 Leave Designation and Serial No. NM-90588			
	SUNDRY NOTICES AN form for proposals to drill o Use "APPLICATION FOR P	r to deepen or reer	ntry to a differen	nt reservoir.	6 If Indian, Allott	ee or Tribe Name	
SUBMIT IN TRIPLICATE					7. If Unit or CA, Agreement Designation		
I Type of Well Oil Gas Well Well					8. Well Name and I	<del>ло</del> .	
2 Name of Operator	Other				Livingston Ridge 18 Fed. #		
Pogo Produci	ing Company				9 API Well No. 30-025-32324		
3 Address and Telephone							
P. O. Box 10340, Midland, TX 79702-7340 (915)682-6822					10. Field and Pool. or Exploratory Area Unde E. Livingston Ridge Delaw		
					11. County or Parisi	h, State	
480 FNL & 3	330' FWL, Section 18,	1225, R32E			Lea		
CHECK	APPROPRIATE BOX(s) T	O INDICATE NA	TURE OF NOT	ICE, REPOP	T, OR OTHER	R DATA	
TYPE OF	SUBMISSION		TYPE	OF ACTION			
XX Notice	of Intent	Abando	nment		Change of Pla	ins	
		Recomp	letion		New Construc	tion	
Subsequ	uent Report	Pluggin	g Back		Non-Routine Fracturing		
<b></b>			Repair		Water Shut-O		
Final Abandonment Notice		Altering Casing		Conversion to Injection			
		U Other			MA Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form 1		
give subsurface loc	I ompleted Operations (Clearly state all pert ations and measured and true vertical de	pths for all markers and zone	es pertinent to this work	(.) <b>*</b>	any proposed work. If	well is directionally drilled.	
well via 3"	fully request permis poly line into the T T22S, R31E, Eddy Cou	exaco Getty 24	e of off-lea #5 SWD loca	se water t ted NE/4,	NW/4,		
			ì				
						2 Y Y	
						•	

14 I hereby certify that the foregoing is true and connect Signed	Title Semior Operations Engineer	
(This space for Federal or State office use) Approved by Org Signed by Shannon J Shaw	Potroleum Engineer	5/25/94
Conditions of approval, if any:		

....

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



## United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carisbad Resource Area Headquarters

P. O. Box 1778 Carisbad, New Mexico \$8220

April 18, 1994

OPERATUR: Pogo Produci	ng Company	Lease No. <u>NM-90588</u>	
WELL NO. & NAME	igston Ridge 18 Federal #3		
LOCATION: <u>NW</u> NW	1, Sec. <u>18</u> , T. <u>22</u> S., R. <u>32</u>	E., <del>5ddy</del> County, N.M. Lea	
The check list below in Salt Water Disposal met	dicates the information needed hod can be approved:	before your Waste or	
Delaware	Name(s) of formation(s) produc	ing water on the lease.	
185 BBLS	Amount of water produced from each formation in barrels per day.		
	A water analysis of produced w in at least the total dissolve concentrations of chlorides an	d solids, ph, and the	
500 BBL FG Tank	How water is stored on the lea	se.	
3" Poly Line	How water is moved to disposal facility.		
Texaco Getty 24 #5 SWE NE/4, NW/4, Sec. 24 T22S, R31E	Operator's name, well name and township and range, of the dis disposal facility is an approv operator's name and the name o should suffice.	red disposal system, the	

Supervisory Petroleum Engineer Technician

REACTION CHEMICAL ENTERPRISES, INC. P.O. BOX 3368 ODESSA, TEXAS 79760-3868 915/332-4324						
	WATER		YSIS			
COMPANY:	POGO LIVINGSTON RIDGE # 3			DATE OF RUN: SAMPLE DATE: RUN # 3821	3-28-94 **	
			Mg./L.	Meq./L.		
	IESS - CaCO3		110,000		-	
	INITY - CaCO3 DLVED SOLIDS		- 319,452			
CALCIUM - C MAGNESIUM - SODIUM - Na BARIUM - Ba	Mg		34,800 5,589 79,030 8	458		
BICARBONATE CARBONATE - SULFATE - S CHLORIDE -	CO3		24 0 0 200,000	0 0 5,634		
CARBON DIOX Hydrogen Su	NIDE - CO2 VLFIDE - H2S		616 0			
TEMPERATURE ph specific gr lbs/gal	AVITY		81.0 5.400 1.215 10.1			
STABILITY I	NDEX (Stiff-Davis	; )		CaSO4	Mg./L.	
SI=pH-pCa-p	Alk-K			SOLUBILITY :	128,147	
DEGREES F.	S.I.			ACTUAL :	0	
	-0.42 -0.13 1.89			SATURATION % :	0	